

1Fw

PTO/SB/21 (02-04)

Approved for use through 07/31/2006. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

TRANSMITTAL FORM

(to be used for all correspondence after initial filing)

| | |
|------------------------|--------------------|
| Application Number | 10/814,918 |
| Filing Date | March 31, 2004 |
| First Named Inventor | Dmitriy Dashevskiy |
| Art Unit | 3672 |
| Examiner Name | _____ |
| Attorney Docket Number | 564-35308-US |

Total Number of Pages in This Submission

6

ENCLOSURES (Check all that apply)

| | | |
|--|---|---|
| <input type="checkbox"/> Fee Transmittal Form <input type="checkbox"/> Fee Attached <input type="checkbox"/> Amendment/Reply <input type="checkbox"/> After Final <input type="checkbox"/> Affidavits/declaration(s) <input type="checkbox"/> Extension of Time Request <input type="checkbox"/> Express Abandonment Request <input checked="" type="checkbox"/> Information Disclosure Statement <input type="checkbox"/> Certified Copy of Priority Document(s) <input type="checkbox"/> Response to Missing Parts/Incomplete Application <input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53 | <input type="checkbox"/> Drawing(s) <input type="checkbox"/> Licensing-related Papers <input type="checkbox"/> Petition <input type="checkbox"/> Petition to Convert to a Provisional Application <input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address <input type="checkbox"/> Terminal Disclaimer <input type="checkbox"/> Request for Refund <input type="checkbox"/> CD, Number of CD(s) _____ | <input type="checkbox"/> After Allowance communication to Technology Center (TC) <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences <input type="checkbox"/> Appeal Communication to TC (Appeal Notice, Brief, Reply Brief) <input type="checkbox"/> Proprietary Information <input type="checkbox"/> Status Letter <input checked="" type="checkbox"/> Other Enclosure(s) (please identify below): 1. Return Postcard |
|--|---|---|

Remarks

The Commissioner is hereby authorized to charge any additional fees or credit any overpayment to Deposit Account No. 02-0429-US (564-35308-US).

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

| | |
|-------------------------|------------------------------------|
| Firm or Individual name | Chandran D. Kumar, Reg. No. 48,679 |
| Signature | |
| Date | October 8, 2004 |

CERTIFICATE OF TRANSMISSION/MAILING

I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below.

| | | | |
|-----------------------|---------------|------|-----------------|
| Typed or printed name | Gretchen King | | |
| Signature | | Date | October 8, 2004 |

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANT: Dmitriy Dashevskiy et al.

SERIAL NO.: 10/814,918

FILED: March 31, 2004

TITLE: "Real-Time Drilling Optimization
Based on MWD Dynamic
Measurements"

§
§
§
§
§
§
§
§

Group Art Unit: 3672

Examiner: -----

Atty Docket No.: 564-35308-US

M.S. DD
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

In compliance with the duty of disclosure under 37 C.F.R. § 1.56, it is respectfully requested that this Information Disclosure Statement be entered and the references listed on the attached Form PTO-1449 be considered by the Examiner and made of record.

This Information Disclosure Statement is not to be considered as a representation that a search has been made or that no other material information as defined under 37 C.F.R. §1.56(a) exists.

The Commissioner is hereby authorized to charge any additional fees or credit any overpayment to Deposit Account No. 02-0429 (564-35308-US).

Respectfully submitted,

Dated: October 8, 2004

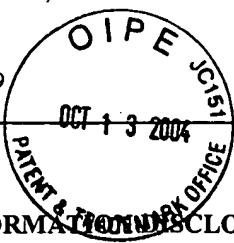
Chandran D. Kumar
Registration No. 48,679
Madan, Mossman & Sriram, P.C.
2603 Augusta, Suite 700
Houston, Texas 77057
Telephone: (713) 266-1130
Facsimile: (713) 266-8510

CERTIFICATE OF MAILING UNDER 37 C.F.R. §1.10

I hereby certify that this paper, along with any referred to as being attached or enclosed, is being forwarded to M.S.DD, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 via the United States Postal Service, First Class Mail, prepaid on the 8th day of October, 2004.

By:

Gretchen King



INFORMATION DISCLOSURE STATEMENT

(Use several sheets if necessary)

ATTY. DOCKET NO.

564-35308-US

SERIAL NO.

10/814,918

APPLICANT

Dmitriy Dashevskiy et al.

FILING DATE

March 31, 2004

GROUP

3672

U.S. PATENT DOCUMENTS

| *EXAMINER INITIAL | | DOCUMENT NUMBER | DATE | NAME | CLASS | SUBCLASS | FILING DATE IF APPROPRIATE |
|----------------------|----|--------------------|----------|-----------------|-------|----------|-------------------------------|
| | AA | 4,739,841 | 04/26/88 | Das | 175 | 61 | 08/15/86 |
| | AB | 5,947,213 | 09/07/99 | Angle et al. | 175 | 24 | 07/11/97 |
| | AC | 6,012,015 | 01/04/00 | Tubel | 702 | 6 | 09/18/97 |
| | AD | 6,021,377 | 02/01/00 | Dubinsky et al. | 702 | 9 | 10/23/96 |
| | AE | 6,026,911 | 02/22/00 | Angle et al. | 175 | 24 | 11/09/98 |
| | AF | | | | | | |

FOREIGN PATENT DOCUMENTS

| | | DOCUMENT NUMBER | PUBL. DATE | COUNTRY | CLASS | SUBCLASS | TRANSLATION | |
|--|----|--------------------|---------------|---------|-------|----------|-------------|----|
| | | | | | | | YES | NO |
| | AH | EP0718641A2 | 26.06.96 | EPO | | | X | |
| | AI | GB2340944A | 01.03.00 | UK | | | X | |
| | AJ | EP1126129A1 | 22.08.01 | EPO | | | X | |

OTHER DISCLOSURES (Including Author, Title, Date, Pertinent Pages of Publication, Etc.)

| | | |
|--|----|--|
| | AK | <i>Lateral Drillstring Vibrations in Extended-Reach Wells</i> , G. Heisig, SPE, Baker Hughes INTEQ, M. Neubert, SPE, Baker Hughes INTEQ GmbH, paper presented at the 2000 IADC/SPE Drilling Conference held in New Orleans, LA, 23-25 February 2000. |
| | AK | <i>Real-time Drilling Optimization Based on MWD Dynamic Measurements-Field Test Results</i> , Dashevskiy D. ¹ , Macpherson J.D. ¹ , Dubinsky V. ¹ , McGinley, P. ¹ , Baker Hughes, presented at the AADE 2003 National Technology Conference "Practical Solutions for Drilling Challenges", held at the Radisson Astrodome Houston, Texas April 1-3, 2003. |
| | AL | <i>Improving Drilling Performance by Applying Advanced Dynamics Models</i> , M.W. Dykstra, SPE, Hughes Christensen, M. Neubert, SPE, Baker Hughes, INTEQ, J.M. Hanson, SPE, Consultant, M.J. Meiners, SPE, Hughes Christensen, presented at the SPE/IADC Drilling Conference held in Amsterdam, The Netherlands, 27 February-1 March 2001. |

EXAMINER

DATE CONSIDERED

*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next comment to applicant

| | | | | | | | |
|---|----|---|---------------|--|-------|--------------------------|---|
| INFORMATION DISCLOSURE STATEMENT <i>(Use several sheets if necessary)</i> | | | | ATTY. DOCKET NO. 564-35308-US | | SERIAL NO. 10/814,918 | |
| | | | | APPLICANT Dmitriy Dashevskiy et al. | | | |
| | | | | FILING DATE March 31, 2004 | | GROUP 3672 | |
| U.S. PATENT DOCUMENTS | | | | | | | |
| *EXAMINER INITIAL | | DOCUMENT NUMBER | DATE | NAME | CLASS | SUBCLASS | FILING DATE IF APPROPRIATE |
| | BA | | | | | | |
| | BB | | | | | | |
| | BC | | | | | | |
| | BD | | | | | | |
| | BE | | | | | | |
| FOREIGN PATENT DOCUMENTS | | | | | | | |
| | | DOCUMENT NUMBER | PUBL. DATE | COUNTRY | CLASS | SUBCLASS | TRANSLATION <div style="display: flex; justify-content: space-between; font-size: small;"> <div>YES</div> <div>NO</div> </div> |
| | BH | 0595033A2 | 04.05.94 | EPO | | | X |
| | BI | WO97/31175 | 28.08.97 | WIPO | | | X |
| | BJ | WO01/61140 A1 | 23.08.01 | WIPO | | | X |
| OTHER DISCLOSURES (Including Author, Title, Date, Pertinent Pages of Publication, Etc.) | | | | | | | |
| | BK | <i>Field Experiences with Computer Controlled Drilling</i> , Brett, J.F., Warren, T.M., Wait, D.E., (Paper SPE 20107). | | | | | |
| | BL | <i>Measurement of BHA Vibration Using MWD</i> , Close, D.A., Owens, S.C. and Macpherson J.D., SPE/IADC 17273, 1988. | | | | | |
| | BM | <i>Downhole Diagnosis of Drilling Dynamics Provides New Level Drilling Process Control to Driller</i> , Heisig, G., Sancho, J., Macpherson J.D., SPE 49206, 1998. | | | | | |
| | | <i>An Interactive Drilling Dynamics Simulator for Drilling Optimization and Training</i> , Dubinsky, V.S. Baecker, D. R., Paper SPE 49205, 1998 | | | | | |
| | BN | <i>A New Approach to Interpreting Rock Drillability</i> , Bingham, M.G., Petroleum Publishing Company, 1965. | | | | | |
| EXAMINER | | | | DATE CONSIDERED | | | |
| *EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609. Draw line though citation if not in conformance and not considered. Include copy of this form with next comment to applicant | | | | | | | |

| | | | | | | | |
|--|----|---|---------------|--|-------|--------------------------|-------------------------------|
| INFORMATION DISCLOSURE STATEMENT <i>(Use several sheets if necessary)</i> | | | | ATTY. DOCKET NO. 564-35308-US | | SERIAL NO. 10/814,918 | |
| | | | | APPLICANT Dmitriy Dashevskiy et al. | | | |
| | | | | FILING DATE March 31, 2004 | | GROUP 3672 | |
| U.S. PATENT DOCUMENTS | | | | | | | |
| *EXAMINER INITIAL | | DOCUMENT NUMBER | DATE | NAME | CLASS | SUBCLASS | FILING DATE IF APPROPRIATE |
| | CA | | | | | | |
| | CB | | | | | | |
| | CC | | | | | | |
| | CD | | | | | | |
| | CE | | | | | | |
| | CF | | | | | | |
| | CG | | | | | | |
| FOREIGN PATENT DOCUMENTS | | | | | | | |
| | | DOCUMENT NUMBER | PUBL. DATE | COUNTRY | CLASS | SUBCLASS | TRANSLATION YES NO |
| | CH | WO02/38915 A2 | 16.05.02 | WIPO | | | X |
| | CI | WO00/50728 | 31.08.00 | WIPO | | | X |
| | CJ | GB2352046A | 17.01.01 | UK | | | X |
| OTHER DISCLOSURES (Including Author, Title, Date, Pertinent Pages of Publication, Etc.) | | | | | | | |
| | CK | <i>Application of Drilling Performance Data to Overpressure Detection</i> , Jordan, J.R. and Shirley, O.J., 1966, JPT, No 11. | | | | | |
| | CL | <i>AGIP Deep Drilling Technology – 2</i> , Bellotti P., and Giacca D., OGJ, vol 76, No. 35, pp 148. | | | | | |
| | | | | | | | |
| EXAMINER | | | | DATE CONSIDERED | | | |
| *EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next comment to applicant | | | | | | | |

| | | | | | | | |
|---|----|--|---------------|--|-------|--------------------------|-------------------------------|
| INFORMATION DISCLOSURE STATEMENT <i>(Use several sheets if necessary)</i> | | | | ATTY. DOCKET NO. 564-35308-US | | SERIAL NO. 10/814,918 | |
| | | | | APPLICANT Dmitriy Dashevskiy et al. | | | |
| | | | | FILING DATE March 31, 2004 | | GROUP 3672 | |
| U.S. PATENT DOCUMENTS | | | | | | | |
| *EXAMINER INITIAL | | DOCUMENT NUMBER | DATE | NAME | CLASS | SUBCLASS | FILING DATE IF APPROPRIATE |
| | DA | | | | | | |
| | DB | | | | | | |
| FOREIGN PATENT DOCUMENTS | | | | | | | |
| | | DOCUMENT NUMBER | PUBL. DATE | COUNTRY | CLASS | SUBCLASS | TRANSLATION YES NO |
| | DE | WO98/17894 | 30.04.98 | WIPO | | | X |
| | DF | DE19941197 | 23.09.98 | DE | | | N |
| | DG | WO01/61140 | 23.08.01 | WIPO | | | X |
| | DH | JP6346448A | 12.20.94 | Japan | | | N |
| | DI | EP0881357 | 20.05.02 | EPO | | | X |
| OTHER DISCLOSURES (Including Author, Title, Date, Pertinent Pages of Publication, Etc.) | | | | | | | |
| | DH | <i>Drilling Model for Soft-Formation Bits</i> , Warren T.M., 1981, JPT, vol 33, no. 6, pp 963. | | | | | |
| | DI | <i>Roller Bit Model with Rock Ductility and Cone Offset</i> , Warren T.M., and Oniya E.C., 1987, SPE 16696. | | | | | |
| | DJ | <i>The Application of a New Drilling Model for Evaluating Formation and Downhole Drilling Conditions</i> , Jogi P.N., and Zoeller W.A., 1992, SPE 24452. | | | | | |
| | DK | | | | | | |
| EXAMINER | | | | DATE CONSIDERED | | | |
| *EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609. Draw line though citation if not in conformance and not considered. Include copy of this form with next comment to applicant | | | | | | | |